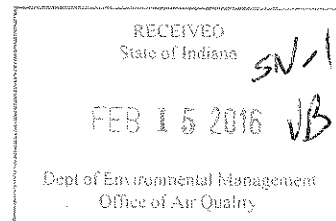




Terre Haute
2400 South Erie Canal
Terre Haute, IN 47802
www.hydrite.com

February 10, 2016



Melissa Cline
IDEM
Office of Air Quality/Permits Branch
100 North Senate Avenue
Indianapolis, IN 46204

Dear Melissa,

Enclosed please find two copies of documents covering the renewal of the MSOP for Hydrite Chemical in Terre Haute. Our existing permit number is 167-29848-00069 and expires on 7/12/2016.

This permit was revised late last year due to the addition of a new source (boiler) within the plant. All other items remain the same as referenced in that revision with the exception of a minor process change outlined below.

The minor revision is in our burner #2 area, which was originally permitted in 2013 at the time of its construction. We have revised the strength of the caustic stream used for neutralization in the cooling towers, Strong, Weak, Wash Tower and the Scrubber tower from 25 percent to 10 percent. This is described in the most recent permit description in section A.2 (f). A marked up copy of this section is included.

The person responsible for operation of our facility has also changed as noted in the GSD-01 document. (enclosed)

Please advise if anything else is needed by your office regarding renewal of the permit.

Sincerely,

A handwritten signature of Loren Meisinger in cursive script.
Loren Meisinger
SQRA Manager
Hydrite Chemical Company



AIR PERMIT APPLICATION COVER SHEET
State Form 50639 (R4 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.IN.gov/idem

NOTES:

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to **IDEM Air Permits Administration** using the address in the upper right hand corner of this page.
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

1. Tax ID Number:

Exemption 4-Confidential
Exemption 4-Confidential
Exemption 4-Confidential

FOR OFFICE USE ONLY

PERMIT NUMBER:

DATE APPLICATION WAS RECEIVED:

RECEIVED
State of Indiana

SN-1
11-2-15 2016 JB

Dept of Environmental Management
Office of Air Quality

PART A: Purpose of Application

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

2. Source / Company Name: Hydrite Chemical Company

3. Plant ID: 167 – 0069

4. Billing Address: 2400 South Erie Canal Road

City: Terre Haute

State: IN

ZIP Code: 47802 –

5. Permit Level: ☐ Exemption ☐ Registration ☐ SSOA ☒ MSOP ☐ FESOP ☐ TVOP ☐ PBR

6. Application Summary: Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.

- | | | |
|---|---|--|
| <input type="checkbox"/> Initial Permit | <input checked="" type="checkbox"/> Renewal of Operating Permit | <input type="checkbox"/> Asphalt General Permit |
| <input type="checkbox"/> Review Request | <input type="checkbox"/> Revocation of Operating Permit | <input type="checkbox"/> Alternate Emission Factor Request |
| <input type="checkbox"/> Interim Approval | <input type="checkbox"/> Relocation of Portable Source | <input type="checkbox"/> Acid Deposition (Phase II) |
| <input type="checkbox"/> Site Closure | <input type="checkbox"/> Emission Reduction Credit Registry | |

☐ Transition (between permit levels)

From:

To:

☐ Administrative Amendment:

☐ Company Name Change

☒ Change of Responsible Official

☐ Correction to Non-Technical Information

☐ Notice Only Change

☐ Other (specify):

☒ Modification:

☐ New Emission Unit or Control Device

☐ Modified Emission Unit or Control Device

☐ New Applicable Permit Requirement

☐ Change to Applicability of a Permit Requirement

☐ Prevention of Significant Deterioration

☐ Emission Offset

☐ MACT Preconstruction Review

☐ Minor Source Modification

☐ Significant Source Modification

☐ Minor Permit Modification

☐ Significant Permit Modification

☒ Other (specify): Change to permit process description

7. Is this an application for an initial construction and/or operating permit for a "Greenfield" Source? ☐ Yes ☒ No

8. Is this an application for construction of a new emissions unit at an Existing Source? ☐ Yes ☒ No

PART B: Pre-Application Meeting

Part B specifies whether a meeting was held or is being requested to discuss the permit application.

9. Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project?

☒ No ☐ Yes: *Date:*

10. Would you like to schedule a meeting with IDEM management and your permit writer to discuss the details of this project?

☒ No ☐ Yes: *Proposed Date for Meeting:*

PART C: Confidential Business Information

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as **Confidential Business Information**?

☒ No ☐ Yes

PART D: Certification Of Truth, Accuracy, and Completeness

Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.

For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" as defined in 326 IAC 2-1.1-1(1).

☒ I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.

Adam Russell
Name (typed)

Operations Manager
Title

Signature

Date

2-10-2016

2013, with a maximum product capacity of 103 tons per day of SO₂ and consisting of the following:

- (1) One (1) molten sulfur process production plant, permitted in 2013;
 - (2) One (1) sulfur burner with a maximum product capacity of 103 tons per day;
 - (3) → One (1) primary cooling tower, using a ¹⁰25% caustic solution pH controlled scrubber, permitted in 2013 and exhausting to stack S-520.
 - (4) → One (1) secondary cooling tower, using a ¹⁰25% caustic solution pH controlled scrubber, permitted in 2013 and exhausting to stack S-520.
 - (5) → One (1) strong ammonium bisulfite tower, using a ¹⁰25% caustic solution pH controlled scrubber, permitted in 2013 and exhausting to stack S-520.
 - (6) → One (1) weak ammonium bisulfite tower, using a ¹⁰25% caustic solution pH controlled scrubber, permitted in 2013 and exhausting to stack S-520.
 - (7) → One (1) wash tower, using a ¹⁰25% caustic solution pH controlled scrubber, and exhausting to stack S-520.
 - (8) One (1) scrubbing tower (for the sulfur burner used for the bisulfite production and ammonium thiosulfate production process), identified as WS-520, permitted → in 2013, using a ¹⁰25% caustic solution pH controlled scrubber, with maximum production capacity of 103 tons per day of SO₂ and exhausting to stack S-520.
- (g) One (1) continuous bisulfite production and ammonium thiosulfate production process, permitted in 2013, consisting of the following:
- (1) One (1) ammonium thiosulfate (ATS) and ammonium bisulfite (ABS) mix tank, with a maximum capacity of 142,000 lbs/hr, permitted in 2013.
 - (2) Three (3) ammonium thiosulfate (ATS) reactors, with a maximum capacity of 40,000 lbs/hr, permitted in 2013.
 - (3) Two (2) ammonium thiosulfate (ATS) storage tanks, with a maximum storage capacity of 40,000 gallons, each, permitted in 2013.
 - (4) One (1) Potassium Hydroxide (KOH) storage tank, identified as tank T-603; constructed in 2015, with a maximum storage capacity of 40,000 gallons.
 - (5) One (1) Ammonium Bisulfite storage tank, identified as tank T-604; constructed in 2015, with a maximum storage capacity of 40,000 gallons.
- (h) One (1) batch bisulfite production process, constructed in 1993, consisting of the following:
- (1) One (1) magnesium bisulfite reactor, identified as PO1001, with a maximum capacity of 62,000 lbs/hr, using a packed bed scrubber with a 10% caustic solution pH controlled, and exhausting to stack S01.
 - (2) One (1) sodium bisulfite reactor, identified as PO1002, with a maximum capacity of 62,000 lbs/hr, using a packed bed scrubber with a 10% caustic solution pH controlled, and exhausting to stack S01.

**OAQ GENERAL SOURCE DATA APPLICATION****GSD-01: Basic Source Level Information**

State Form 50640 (R5 / 1-10)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.IN.gov/idem

NOTES:

- The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD-01 is a required form.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

PART A: Source / Company Location Information

| | | | |
|---|------------------------------|-----------------------------------|-------------------------------|
| 1. Source / Company Name: Hydrite Chemical Company | | 2. Plant ID: 167 – 00069 | |
| 3. Location Address: 2400 South Erie Canal Road | | | |
| City: Terre Haute | | State: IN | ZIP Code: 47802 – 3106 |
| 4. County Name: Vigo | | 5. Township Name: Harrison | |
| 6. Geographic Coordinates: | | | |
| Latitude: 39.4406 | | Longitude: -87.3963 | |
| 7. Universal Transferal Mercadum Coordinates (if known): | | | |
| Zone: 16 | Horizontal: 465897.48 | Vertical: 4365747.22 | |
| 8. Adjacent States: Is the source located within 50 miles of an adjacent state? | | | |
| <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – Indicate Adjacent State(s): <input checked="" type="checkbox"/> Illinois (IL) <input type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY) | | | |
| 9. Attainment Area Designation: Is the source located within a non-attainment area for any of the criteria air pollutants? | | | |
| <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – Indicate Nonattainment Pollutant(s): <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO _x <input type="checkbox"/> O ₃ <input type="checkbox"/> PM <input type="checkbox"/> PM ₁₀ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> SO ₂ | | | |
| 10. Portable / Stationary: Is this a portable or stationary source? | | | |
| <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Stationary | | | |

PART B: Source Summary

| |
|---|
| 11. Company Internet Address (optional): www.hydrite.com |
| 12. Company Name History: Has this source operated under any other name(s)? |
| <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – Provide information regarding past company names in Part I, Company Name History. |
| 13. Portable Source Location History: Will the location of the portable source be changing in the near future? |
| <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source. |
| 14. Existing Approvals: Have any exemptions, registrations, or permits been issued to this source? |
| <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – List these permits and their corresponding emissions units in Part M, Existing Approvals. |
| 15. Unpermitted Emissions Units: Does this source have any unpermitted emissions units? |
| <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – List all unpermitted emissions units in Part N, Unpermitted Emissions Units. |
| 16. New Source Review: Is this source proposing to construct or modify any emissions units? |
| <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – List all proposed new construction in Part O, New or Modified Emissions Units. |
| 17. Risk Management Plan: Has this source submitted a Risk Management Plan? |
| <input type="checkbox"/> Not Required <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes → Date submitted: 6/1/1999 EPA Facility Identifier: 1000 – 0009 – 6503 |

PART C: Source Contact Information

IDEM will send the original, signed permit decision to the person identified in this section. This person MUST be an employee of the permitted source.

18. Name of Source Contact Person: Jordan Abrell

19. Title (optional): SQRA Manager

20. Mailing Address: 2400 S Erie Canal Rd

City: Terre Haute

State: IL

ZIP Code: 48702 – 3106

21. Electronic Mail Address (optional): jordan.abrell@hydrite.com

22. Telephone Number: (812) 232 – 5411

23. Facsimile Number (optional): (812) 232 – 1148

PART D: Authorized Individual/Responsible Official Information

IDEM will send a copy of the permit decision to the person indicated in this section, if the Authorized Individual or Responsible Official is different from the Source Contact specified in Part C.

24. Name of Authorized Individual or Responsible Official: Adam Russell

25. Title: Operations Manager

26. Mailing Address: 2400 South Erie Canal Road

City: Terre Haute

State: IN

ZIP Code: 47802 – 3106

27. Telephone Number: (812) 232 – 5411

28. Facsimile Number (optional): (812) 232 – 1148

29. Request to Change the Authorized Individual or Responsible Official: Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? *The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.*

☐ No

☒ Yes – **Change Responsible Official to:** Adam Russell

PART E: Owner Information

30. Company Name of Owner: Hydrite Chemical Co

31. Name of Owner Contact Person: Joe Weishar

32. Mailing Address: 300 North Patrick Boulevard

City: Brookfield

State: WI

ZIP Code: 53045 –

33. Telephone Number: (262) 792 – 1450

34. Facsimile Number (optional): (262) 792 – 8721

34. Operator: Does the "Owner" company also operate the source to which this application applies?

☒ No – Proceed to Part F below.

☐ Yes – Enter "SAME AS OWNER" on line 35 and proceed to Part G below.

PART F: Operator Information

35. Company Name of Operator: Hydrite Chemical Co

36. Name of Operator Contact Person: Adam Russell

37. Mailing Address: 2400 South Erie Canal Road

City: Terre Haute

State: IN

ZIP Code: 47802 – 3106

38. Telephone Number: (812) 232 – 5411

39. Facsimile Number (optional): (812) 232 – 1148

PART G: Agent Information

| | | |
|---|---|-------------|
| 40. Company Name of Agent: Not Applicable | | |
| 41. Type of Agent: <input type="checkbox"/> Environmental Consultant <input type="checkbox"/> Attorney <input type="checkbox"/> Other (specify): | | |
| 42. Name of Agent Contact Person: | | |
| 43. Mailing Address: | | |
| City: | State: | ZIP Code: - |
| 44. Electronic Mail Address (optional): | | |
| 45. Telephone Number: () - | 46. Facsimile Number (optional): () - | |
| 47. Request for Follow-up: Does the "Agent" wish to receive a copy of the preliminary findings during the public notice period (if applicable) and a copy of the final determination? <input type="checkbox"/> No <input type="checkbox"/> Yes | | |

PART H: Local Library Information

| | | |
|--|---|------------------------|
| 48. Date application packet was filed with the local library: | | |
| 49. Name of Library: Vigo County Public Library | | |
| 50. Name of Librarian (optional): | | |
| 51. Mailing Address: 1 Library Square | | |
| City: Terre Haute | State: IN | ZIP Code: 47807 - 3609 |
| 52. Internet Address (optional): | | |
| 53. Electronic Mail Address (optional): | | |
| 54. Telephone Number: (812) 232 - 1113 | 55. Facsimile Number (optional): () - | |

PART I: Company Name History (if applicable)

Complete this section only if the source has previously operated under a legal name that is different from the name listed above in Section A.

| 56. Legal Name of Company | 57. Dates of Use |
|---------------------------|------------------|
| | to |
| | to |
| | to |
| | to |
| | to |
| | to |
| | to |
| | to |
| | to |
| | to |

58. **Company Name Change Request:** Is the source officially requesting to change the legal name that will be printed on all official documents issued by IDEM, OAQ?
☒ No ☐ Yes - **Change Company Name to:**

Complete this section only if the source is portable and the location has changed since the previous permit was issued. The current location of the source should be listed in Section A.

[illegible]

Complete this section to request a change of location for a portable source.

| | | | |
|------------------------------|--------|-----------|---|
| 62. Current Location: | | | |
| Address: | | | |
| City: | State: | ZIP Code: | — |
| County Name: | | | |
| 63. New Location: | | | |
| Address: | | | |
| City: | State: | ZIP Code: | — |
| County Name: | | | |

PART L: Source Process Description

Complete this section to summarize the main processes at the source.

| 64. Process Description | 65. Products | 66. SIC Code | 67. NAICS Code |
|----------------------------------|----------------------|--------------|----------------|
| Batch Production - existing | MBS, SBS, ABS | | |
| Continuous Production - existing | Ammonium Thiosulfate | 2819 | 325180 |
| Boilers | Steam | | |
| Continuous Production- existing | MBS, SBS, ABS | | |
| | | | |

PART M: Existing Approvals (if applicable)

Complete this section to summarize the approvals issued to the source since issuance of the main operating permit.

| 68. Permit ID | 69. Emissions Unit IDs | 70. Expiration Date |
|-------------------|------------------------|---------------------|
| 167330890 0069 | WS-510 | 7/12/2016 |
| 167330890 0069 | WS-520 | 7/12/2016 |
| 167330890 0069 | S01 | 7/12/2016 |
| | | |
| | | |

PART N: Unpermitted Emissions Units (if applicable)

Complete this section only if the source has emission units that are not listed in any permit issued by IDEM, OAQ.

| 71. Emissions Unit ID | 72. Type of Emissions Unit | 73. Actual Dates | | |
|-----------------------|----------------------------|--------------------|------------------------|-----------------|
| | | Began Construction | Completed Construction | Began Operation |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

PART O: New or Modified Emissions Units (if applicable)

Complete this section only if the source is proposing to add new emission units or modify existing emission units.

| 74. Emissions Unit ID | 75. NEW | 76. MOD | 77. Type of Emissions Unit | 78. Estimated Dates | | |
|-----------------------|---------|---------|----------------------------|---------------------|-----------------------|-----------------|
| | | | | Begin Construction | Complete Construction | Begin Operation |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Sender: You must seal flap before shipping.

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FROM: (812) 232-5411
Hydrite Chemical
Hydrite Chemical Co.
2400 S Erie Canal Rd

Terre Haute IN 47802
US

SHIP DATE: 11FEB16
ACTWGT: 1.00 LB
CAD: 9378076/INET3730

BILL SENDER

TO **Melissa Cline**
IDEM Office of Air Quality Permits
100 North Senate Avenue
MC 61-53 Room 1003
INDIANAPOLIS IN 46204
(317) 233-0178

REF:

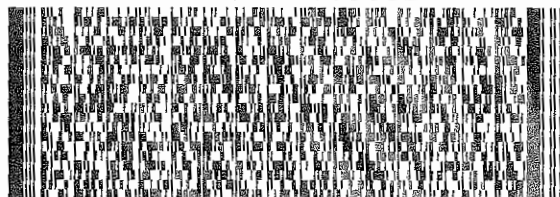
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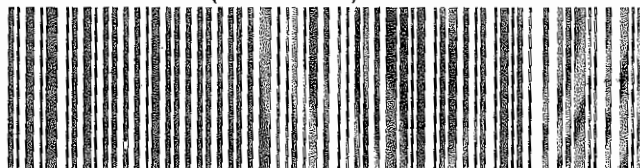
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FEB 15 2016
Dept of Environmental Management
Office of Air Quality

46204

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